

ABSTRACT OF THE DISCLOSURE (FIG. 1)

"DISK DRIVE AND METHOD FOR CONTROLLING DRIVING
VOLTAGE OF SPINDLE MOTOR APPLIED TO DISK DRIVE"

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A voltage determination unit dynamically
determines a first voltage required to maintain the
rotational speed of a spindle motor (SPM) at the rated
rotational speed according to a rotational state of the
10 SPM. A CPU determines a second voltage for driving the
SPM by software processing in a software control mode.
A voltage generator generates the first voltage
determined by the voltage determination unit as driving
voltage in a hardware control mode and generates the
15 second voltage determined by the CPU as the driving
voltage in the software control mode. A driver circuit
drives the SPM by the driving voltage generated with
the voltage generator.



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